

AMI® BIOS Setup

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The mainboard uses AMI® BIOS ROM that provides a Setup utility for users to modify the basic system configuration. The information is stored in a battery-backed CMOS RAM so it retains the Setup information when the power is turned off.

This chapter provides you with the overview of the BIOS Setup program. It contains the following topics:

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Note: For detailed description of BIOS settings, refer to K7T266 Pro (MS-6380) Manual in the provided CD.

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Entering Setup

Power on the computer and the system will start POST (Power On Self Test) process. When the message below appears on the screen, press key to enter Setup.

Hit DEL if you want to run SETUP

If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On or pressing the RESET button. You may also restart the system by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys.

Control Keys

<↑>	Move to the previous item
<↓>	Move to the next item
<←>	Move to the item in the left hand
<→>	Move to the item in the right hand
<Enter>	Select the item
<Esc>	Jumps to the Exit menu or returns to the main menu from a submenu
<+/PU>	Increase the numeric value or make changes
<-/PD>	Decrease the numeric value or make changes
<F5>	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
<F6>	Load the default CMOS value from Fail-Safe default table, only for Option Page Setup Menu
<F7>	Load Optimized defaults
<F10>	Save all the CMOS changes and exit

Getting Help

After entering the Setup utility, the first screen you see is the Main Menu.

Main Menu

The main menu displays the setup categories the BIOS supplies. You can use the arrow keys (↑↓) to select the item. The on-line description for the selected setup category is displayed on the bottom of the screen.

Default Settings

The BIOS setup program contains two kinds of default settings: the Optimized and Performance defaults (High System Performance). Optimized defaults provide optimum and stable performance settings for all devices and the system. (The “default” value described in the chapter usually refers to the Optimized defaults unless otherwise specified.) Performance defaults provide the best system performance but may affect the system stability.

Chapter 2

The Main Menu

Once you enter AMIBIOS SIMPLE SETUP UTILITY, the Main Menu will appear on the screen. The Main Menu displays twelve configurable functions and two exit choices. Use arrow keys to move among the items and press <Enter> to enter the sub-menu.

AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.44 (C)2001 American Megatrends, Inc. All Rights Reserved	
Standard CMOS Features	High System Performance
Advanced BIOS Features	Load Optimized Defaults
Advanced Chipset Features	Supervisor Password
Power Management Setup	User Password
PNP/PCI Configurations	IDE HDD AUTO Detection
Integrated Peripherals	Save & Exit Setup
Hardware Monitor Setup	Exit Without Saving
ESC : Quit	↑↓←→ : Select Item
F10 : Save & Exit	
Time, Date, Hard Disk Type...	

Standard CMOS Features

The items inside STANDARD CMOS SETUP menu are divided into 9 categories. Each category includes none, one or more setup items. Use the arrow keys to highlight the item you want to modify and use the <PgUp> or <PgDn> keys to switch to the value you prefer.

AMIBIOS SETUP - STANDARD CMOS SETUP									
(C)2001 American Megatrends, Inc. All Rights Reserved									
Date (mm/dd/yyyy) : Tue Apr 17, 2001									
Time (hh/mm/ss) : 00:00:00									
	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
Pri Master	:Auto								
Pri Slave	:Auto								
Sec Master	:Auto								
Sec Slave	:Auto								
Floppy Drive A : 1.44 MB 3½			Base Memory : 640 Kb Other Memory : 384 Kb Extended Memory : 127 Mb Total Memory : 128 Mb						
Floppy Drive B : Not Installed									
Boot Sector Virus Protection		Disabled							
Month: Jan - Dec						ESC : Exit			
Day: 01 - 31						↑ ↓ : Select Item			
Year: 1901 - 2099						PU/PD/+/- : Modify			
						(Shift) F2 : Color			


Chapter 2

Advanced BIOS Features

AMIBIOS SETUP - BIOS FEATURES SETUP (C)2001 American Megatrends, Inc. All Rights Reserved		
Quick Boot	:Enabled	
1st Boot Device	:Floppy	
2nd Boot Device	:IDE-0	
3rd Boot Device	:CDROM	
Try Other Boot Devices	:Yes	
Initial Display Mode	:BIOS	
S.M.A.R.T. for Hard Disks	:Disabled	
BootUp Num-Lock	:On	
Floppy Drive Swap	:Disabled	
Floppy Drive Seek	:Disabled	
Primary Display	:VGA/EGA	
Password Check	:Setup	
Boot To OS/2	:No	
L1 Cache	:Enabled	
L2 Cache	:Enabled	
System BIOS Cacheable	:Enabled	
C000, 32k Shadow	:Cached	
		ESC : Quit ↑↓←→ : Select Item F1 : Help PU/PD/+/- : Modify F5 : Load Previous Values F6 : Load Fail-Safe Defaults F7 : Load Optimized Defaults

Advanced Chipset Features

AMIBIOS SETUP - CHIPSET FEATURES SETUP (C)2001 American Megatrends, Inc. All Rights Reserved		
Configure SDRAM Timing by	:SPD	
SDRAM Frequency	:HCLK	
SDRAM CAS# Latency	:2.5	
SDRAM Bank Interleave	:Disabled	
SDRAM 1T Command	:Disabled	
AGP Mode	:Auto	
AGP Comp. Driving	:Auto	
Manual AGP Comp. Driving	:CB	
AGP Fast Write	:Disabled	
AGP Read Synchronization	:Disabled	
AGP Aperture Size	:64MB	
AGP Master 1 W/S Write	:Disabled	
AGP Master 1 W/S Read	:Disabled	
PCI Master Read Caching	:Disabled	
Search for MDA Resources	:Yes	
PCI Delay Transaction	:Disabled	
BIOS Protection	:Enabled	
		ESC : Quit ↑↓←→ : Select Item
		F1 : Help PU/PD/+/- : Modify
		F5 : Load Previous Values
		F6 : Load Fail-Safe Defaults
		F7 : Load Optimized Defaults

 **Note:** Change these settings only if you are familiar with the chipset.

Power Management Setup

AMIBIOS SETUP - POWER MANAGEMENT SETUP (C)2001 American Megatrends, Inc. All Rights Reserved			
IPCA Function	:Yes	Wake Up On Ring/LAN	:Enabled
ACPI Standby State	:S1/POS	Wake Up On PME#	:Enabled
USB Wakeup From S3	:Disabled	Resume By Alarm	:Disabled
Power Management/APM	:Enabled	Alarm Date	:15
Green PC LED Status	:Dual Color	Alarm Hour	:12
Suspend Time Out (Minute)	:Disabled	Alarm Minute	:30
Display Activity	:Ignore	Alarm Second	:30
IRQ3	:Monitor	ESC : Quit ↑↓←→ : Select Item F1 : Help PU/PD/+/- : Modify F5 : Load Previous Values F6 : Load Fail-Safe Defaults F7 : Load Optimized Defaults	
IRQ4	:Monitor		
IRQ5	:Ignore		
IRQ7	:Monitor		
IRQ9	:Ignore		
IRQ10	:Ignore		
IRQ11	:Ignore		
IRQ13	:Ignore		
IRQ14	:Monitor		
IRQ15	:Ignore		
CPU Critical Temperature	:Disabled		
Power Button Function	:Suspend		
Restore on AC/Power Loss	:Last State		

PNP/PCI Configurations

This section describes configuring the PCI bus system and PnP (Plug & Play) feature. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed the CPU itself uses when communicating with its special components. This section covers some very technical items and it is strongly recommended that only experienced users should make any changes to the default settings.

AMIBIOS SETUP - PNP/PCI CONFIGURATION (C)2001 American Megatrends, Inc. All Rights Reserved		
Plug and Play Aware O/S	:No	
Clear NVRAM	:No	
Primary Graphics Adapter	:PCI	
DMA Channel 0	:PnP	
DMA Channel 1	:PnP	
DMA Channel 3	:PnP	
DMA Channel 5	:PnP	
DMA Channel 6	:PnP	
DMA Channel 7	:PnP	
IRQ3	:PCI/PnP	
IRQ4	:PCI/PnP	
IRQ5	:PCI/PnP	
IRQ7	:PCI/PnP	
IRQ9	:PCI/PnP	
IRQ10	:PCI/PnP	
IRQ11	:PCI/PnP	ESC : Quit ↑↓←→ : Select Item F1 : Help PU/PD/+/- : Modify F5 : Load Previous Values F6 : Load Fail-Safe Defaults F7 : Load Optimized Defaults
IRQ14	:PCI/PnP	
IRQ15	:PCI/PnP	

Integrated Peripherals

AMIBIOS SETUP- INTEGRATED PERIPHERALS (C)2001 American Megatrends, Inc. All Rights Reserved			
FDC Function	:Auto	USB Controller	:All USB Port
Serial Port1	:Auto	USB Legacy Support	:Disabled
Serial Port2	:Auto	USB Port 64/60 Emulation	:Disabled
Serial Port2 Mode	:Normal		
IR Duplex Mode	:Half Duplex		
IR Pin Select	:IRRX/IRTX		
Parallel Port	:Auto		
Parallel Port Mode	:ECP		
EPP Version	:N/A		
Parallel Port IRQ	:Auto		
Parallel Port DMA	:Auto		
OnBoard Midi Port	:Disabled		
Midi IRQ Select	:5		
OnBoard Game Port	:200		
Keyboard PowerOn Function	:Disabled		
Specific Key for PowerOn	:N/A		
Mouse PowerOn Function	:Disabled	ESC : Quit	↑↓←→ : Select Item
IDE Function	:Both	F1 : Help	PU/PD/+/- : Modify
OnChip AC'97 Audio	:Enabled	F5 : Load Previous Values	
OnChip MC'97 Modem	:Auto	F6 : Load Fail-Safe Defaults	
		F7 : Load Optimized Defaults	

Hardware Monitor Setup

This section describes how to set the Chassis Intrusion feature, CPU FSB frequency, monitor the current hardware status including CPU/system temperatures, CPU/System Fan speeds, Vcore etc. Monitor function is available only if there is hardware monitoring mechanism onboard.

AMIBIOS SETUP - Hardware Monitor Setup (C)2001 American Megatrends, Inc. All Rights Reserved		
Spread Spectrum	±0.25%	Battery +5V SB
CPU FSB Clock	100MHz	
CPU FSB/PCI Overclocking	H/W	
Chassis Intrusion	Disabled	
CPU Temperature		
System Temperature		
CPU Fan Speed		
System Fan Speed		
Power Fan Speed		
Vcore		
VTT		
VIO		
+ 5.0V		
+12.0V		
-12.0V		
- 5.0V		
		ESC : Quit ↑↓←→ : Select Item F1 : Help PU/PD/+/- : Modify F5 : Load Previous Values F6 : Load Fail-Safe Defaults F7 : Load Optimized Defaults

When you select Load Optimized Defaults, a message as below appears:

AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.44 (C)2001 American Megatrends, Inc. All Rights Reserved	
Standard CMOS Features	High System Performance
Advanced BIOS Features	Load Optimized Defaults
Advanced Chipset Features	Supervisor Password
Power Management Setup	
PNP/PCI Configuration	Load Optimized Defaults (Y/N)? N
Integrated Peripherals	Save & Exit Setup
Hardware Monitor Setup	Exit Without Saving
ESC : Quit ↑↓←→ : Select Item	
F10 : Save & Exit	
Load Optimized Defaults except Standard CMOS SETUP	

Pressing 'Y' loads the default values that are factory settings for optimal and stable system performance.

Supervisor/User Password

AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.44	
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Standard CMOS Features	High System Performance
Advanced BIOS Features	Load Optimized Defaults
Advanced Chipset Features	Supervisor Password
Power Management Setup	User Password
PNP/PCI Configuration	Enter new supervisor password:
Integrated Peripherals	
Hardware Monitor Setup	Exit Without Saving
ESC : Quit ↑↓←→ : Select Item	
F10 : Save & Exit	
Change/Set/Disable Password	

To clear a set password, just press <Enter> when you are prompted to enter the password. A message will show up confirming the password will be disabled. Once the password is disabled, the system will boot and you can enter Setup without entering any password.

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Additionally, when a password is enabled, you can also have AMIBIOS to request a password each time the system is booted. This would prevent unauthorized use of your computer. The setting to determine when the password prompt is required is the PASSWORD CHECK option of the BIOS FEATURES SETUP menu. If the PASSWORD CHECK option is set to *Always*, the password is required both at boot and at entry to Setup. If set to *Setup*, password prompt only occurs when you try to enter Setup.

About Supervisor Password & User Password:

Supervisor password : Can enter and change the settings of the setup menu.

User password: Can only enter but do not have the right to change the settings of the setup menu.

Chapter 2

IDE HDD AUTO Detection

You can use this utility to AUTOMATICALLY detect the characteristics of most hard drives.

AMIBIOS SETUP - STANDARD CMOS SETUP (C)2001 American Megatrends, Inc. All Rights Reserved								
Date (mm/dd/yyyy) : Tue Apr 17, 2001 Time (hh/mm/ss) : 00:00:00								
	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Pri Master	:Auto							
Pri Slave	:Auto							
Sec Master	:Auto							
Sec Slave	:Auto							
Floppy Drive A : 1.44 MB 3½			Base Memory : 640 Kb Other Memory : 384 Kb Extended Memory : 127 Mb Total Memory : 128 Mb					
Floppy Drive B : Not Installed								
Boot Sector Virus Protection		Disabled						
Detecting drive parameters: Press ESC to abort					ESC : Exit ↑ ↓ : Select Item PU/PD/+/- : Modify (Shift) F2 : Color			

Save & Exit Setup

When you want to quit the Setup menu, you can select this option to save the changes and quit. A message as below will appear on the screen.

AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.44 (C)2001 American Megatrends, Inc. All Rights Reserved	
Standard CMOS Features	High System Performance
Advanced BIOS Features	Load Optimized Defaults
Advanced Chipset Features	Supervisor Password
Power Management Setup	User Password
PNP/PCI Conf	Section
SAVE to CMOS and EXIT(Y/N)? Y	
Integrated Peripherals	
Hardware Monitor Setup	Exit Without Saving
ESC : Quit ↑↓←→ : Select Item F10 : Save & Exit	
Save Data to CMOS & Exit SETUP	

Typing *Y* will allow you to quit the Setup Utility and save the user setup changes to RTC CMOS.

Typing *N* will return to the Setup Utility.

Exit Without Saving

AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.44 (C)2001 American Megatrends, Inc. All Rights Reserved	
Standard CMOS Features	High System Performance
Advanced BIOS Features	Load Optimized Defaults
Advanced Chipset Features	Supervisor Password
Power Management Setup	User Password
PNP/PCI Conf	Section
Integrated E	P
Hardware Monitor Setup	Exit Without Saving
ESC : Quit ↑↓←→ : Select Item F10 : Save & Exit	
Abandon all Datas & Exit SETUP	

Typing *N* will return to the Setup Utility.